

Title (en)
CAPACITY CONTROL VALVE

Title (de)
KAPAZITÄTSSTEUERUNGSVENTIL

Title (fr)
SOUPAPE DE COMMANDE DE CAPACITÉ

Publication
EP 3734068 B1 20220720 (EN)

Application
EP 18895992 A 20181221

Priority
• JP 2017248434 A 20171225
• JP 2018047177 W 20181221

Abstract (en)
[origin: EP3734068A1] There is provided a capacity control valve that can quickly reduce pressure in a control chamber at the time of the startup of a variable-capacity compressor. A capacity control valve V includes a valve housing 10 having a main valve seat portion formed on an inner peripheral surface thereof, a main valve body 53 that has a main valve portion 53a capable of seating on the main valve seat portion 12c and is capable of blocking communication between a discharge port 12a and a control port 14a depending on a driving force of a solenoid 80, a relief valve 59 that is opened by pressure, a first flow channel 56 that allows the control port 14a and a suction port 13a to communicate with each other in a case where the relief valve 59 is opened, a second flow channel 90 that is formed at least partially in parallel with the first flow channel and allows the control port 14a and the suction port 13a to communicate with each other, and a spool valve body 52 that is reciprocatably disposed in a sleeve 83s and capable of adjusting an opening of the second flow channel 90 depending on the driving force of the solenoid. After the main valve portion 53a is seated on the main valve seat portion 12c, the spool valve body 52 is further moved by the driving force of the solenoid 80 and increases the opening of the second flow channel 90.

IPC 8 full level
F04B 27/18 (2006.01)

CPC (source: EP US)
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